

Fig. 1

Corrosion such as pitting corrosion, etc.  
in non-welding portion

Preferential corrosion  
in welding portion

Preferential corrosion  
in welding portion

Welding portion

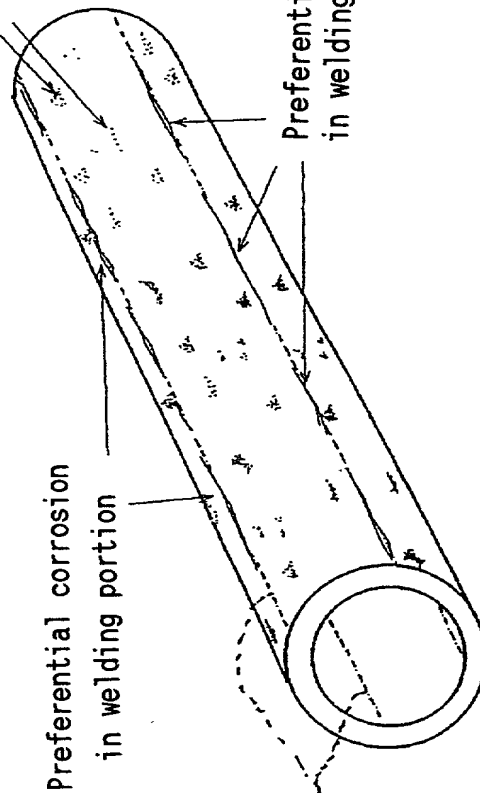
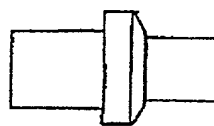
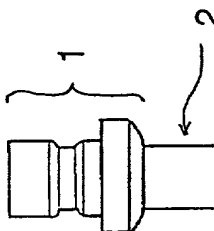


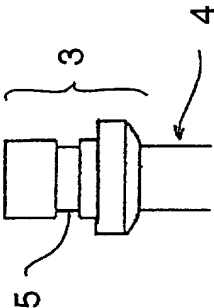
Fig. 2 (A) Type A Fig. 2 (B) Type B Fig. 2 (C) Type C Fig. 2 (D) Type D



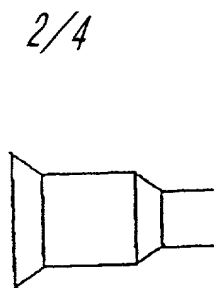
Punch shaping



Punch shaping



Punch → forming  
by rolling



Punch shaping

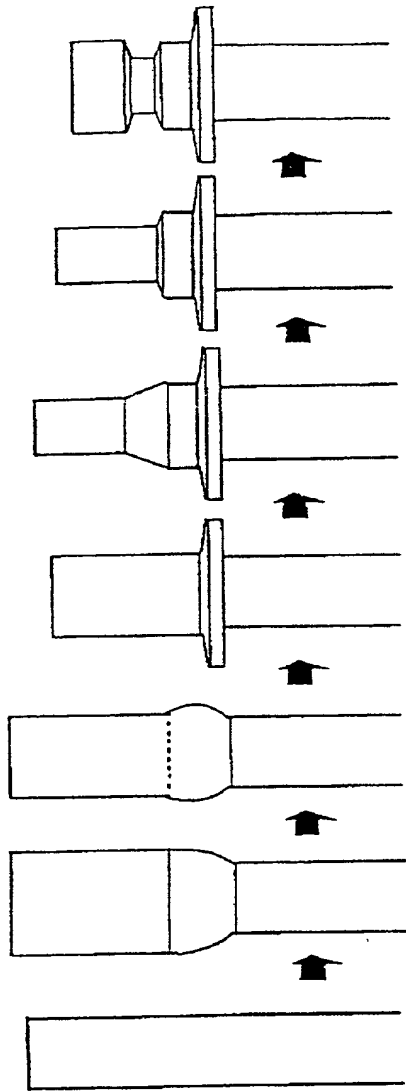


Fig. 3 (A)

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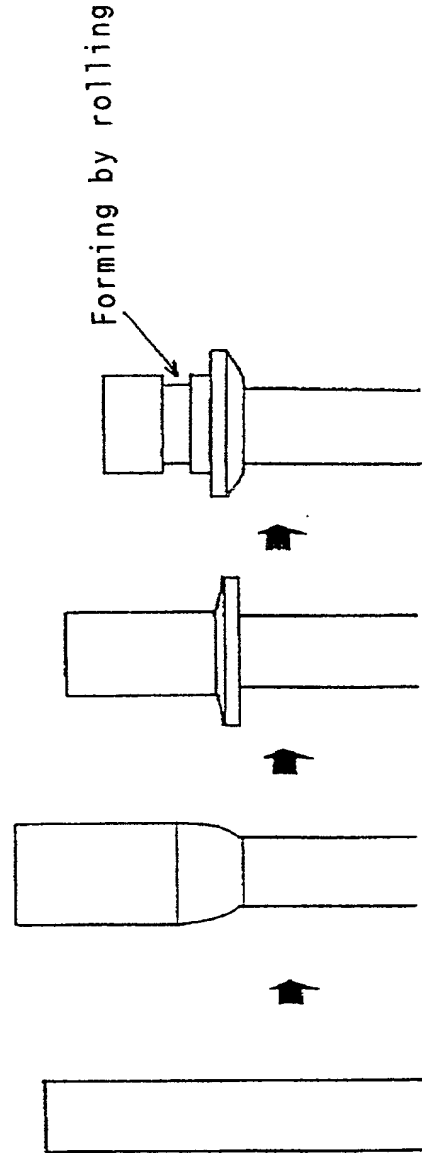


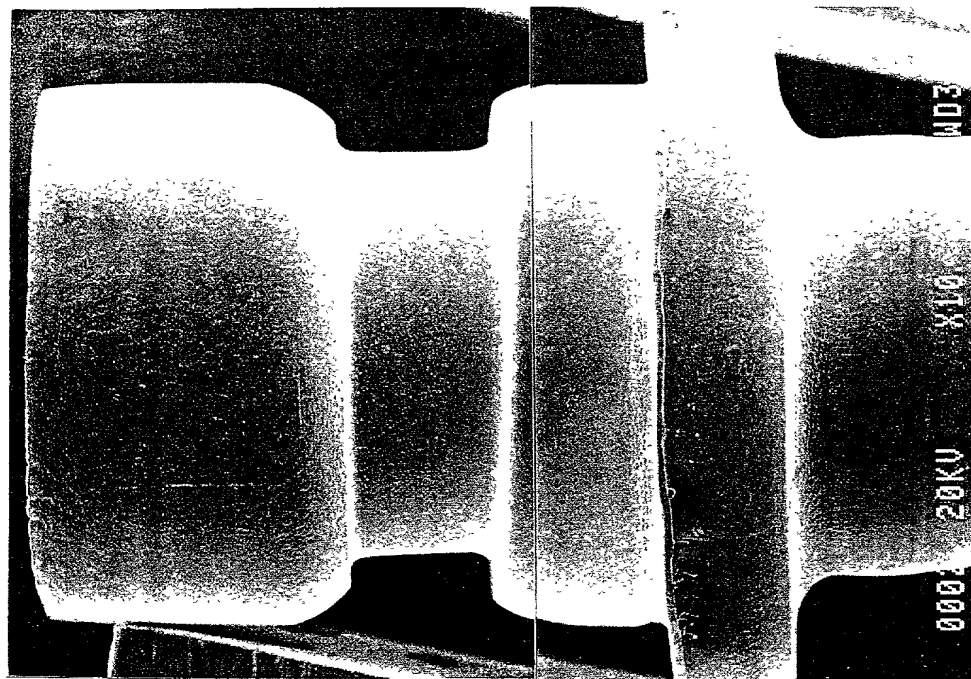
Fig. 3 (B)

Fig. 4 (A)



Current pipe material

Fig. 4 (B)



Pipe material of example of the present invention (portion with terminal end processing of type B)